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October 29, 2001

Commissioner For Patents
Office of Initial Patent Examination
Customer Service Center
Washington, D.C. 20231

Re: Our File: AMSC 3.3-001
Appln. No. 09/868,753
Filing Date: June 21, 2001
Group Art Unit: 1645

Dear Sir:

We are enclosing herewith a copy of the filing receipt for the above-identified patent application.


Please note that the correct **Filing Date** should read --**June 21, 2001**--, not "12." As proof of this change, please refer to the enclosed copies of a Transmittal Letter and Express Mail Label Number EL807550335US. Also, please reverse lines 2 and 3 of the section entitled "**Domestic Priority as Claimed by Applicant**" so that this section now reads as follows:

This Application is a 371 of PCT/US00/29231 10/23/2000
which claims benefit of **60/161,292 10/25/1999**
which claims benefit of **60/161,193 10/22/1999**

Kindly issue a corrected filing receipt for the above-identified application as soon as possible.

Sincerely yours,

LERNER, DAVID, LITTENBERG,
KRUMHOLZ & MENTLIK, LLP



ARNOLD H. KRUMHOLZ
Reg. No. 25,428

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Enclosures
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APPLICATION NUMBER	FILING DATE	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	DRAWINGS	TOT CLAIMS	IND CLAIMS
09/868,753	06/12/2001	1645	396	AMSC-001 33	10	32	4

CONFIRMATION NO. 5065

000530

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600 SOUTH AVENUE WEST
WESTFIELD, NJ 07090

FILING RECEIPT



OC000000006548379

Date Mailed: 09/13/2001

Receipt is acknowledged of this nonprovisional Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please write to the Office of Initial Patent Examination's Customer Service Center. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

Applicant(s)

John R. Murphy, Boston, MA;
Edward O'Lear, Wolcott, CT;
Robert J. Harrison, Medfield, MA;

Domestic Priority data as claimed by applicant

THIS APPLICATION IS A 371 OF PCT/US00/29231 10/23/2000
WHICH CLAIMS BENEFIT OF 60/161,193 10/22/1999
WHICH CLAIMS BENEFIT OF 60/161,292 10/25/1999

Foreign Applications

Projected Publication Date: N/A

Non-Publication Request: No

Early Publication Request: No

Title

Vaccine compositions

RECEIVED

SEP 20 2001

LDLK&M

Preliminary Class

424

Data entry by : NGUYEN, SON

Team : OIPE

Date: 09/13/2001

[REDACTED]

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Title 35, United States Code, Section 184
Title 37, Code of Federal Regulations, 5.11 & 5.15

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PLEASE NOTE the following information about the Filing Receipt:

- The articles such as "a," "an" and "the" are not included as the first words in the title of an application. They are considered to be unnecessary to the understanding of the title.
- The words "new," "improved," "improvements in" or "relating to" are not included as first words in the title of an application because a patent application, by nature, is a new idea or improvement.
- The title may be truncated if it consists of more than 500 characters (letters and spaces combined).
- The docket number allows a maximum of 25 characters.
- If your application was submitted under 37 CFR 1.10, your filing date should be the "date in" found on the Express Mail label. If there is a discrepancy, you should submit a request for a corrected Filing Receipt along with a copy of the Express Mail label showing the "date in."
- The title is recorded in sentence case.

Any corrections that may need to be done to your Filing Receipt should be directed to:

Assistant Commissioner for Patents
Office of Initial Patent Examination
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Washington, DC 20231

AMSC-001

**TRANSMITTAL LETTER TO THE UNITED STATES
DESIGNATED/ELECTED OFFICE (DO/EO/US)
CONCERNING A FILING UNDER 35 U.S.C. 371**

U.S. APPLICATION NO. (If known, see 37 CFR 1.5)

INTERNATIONAL APPLICATION NO.
PCT/US00/29231INTERNATIONAL FILING DATES
23 October 2000PRIORITY DATE CLAIMED
22 October 1999

TITLE OF INVENTION VACCINE COMPOSITIONS

APPLICANT(S)
FOR DO/EO/US

John R. MURPHY et al.

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1. ☒ This is a **FIRST** submission of items concerning a filing under 35 U.S.C. 371.
2. ☐ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a filing under 35 U.S.C. 371.
3. ☒ This is an express request to promptly begin national examination procedures (35 U.S.C. 371 (f)).
4. ☐ The US has been elected by the expiration of 19 months from the priority date (PCT Article 31).
5. ☒ A copy of the International Application as filed (35 U.S.C. 371 (c)(2))
 - a. ☐ is attached hereto (required only if not transmitted by the International Bureau).
 - b. ☐ has been communicated by the International Bureau.
 - c. ☒ is not required, as the application was filed in the United States Receiving Office (RO/US).
6. ☐ An English language translation of the International Application as filed (35 U.S.C. 371 (c)(2)).
7. ☒ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3))
 - a. ☐ are attached hereto (required only if not communicated by the International Bureau).
 - b. ☐ have been communicated by the International Bureau.
 - c. ☐ have not been made; however, the time limit for making such amendments has NOT expired.
 - d. ☒ have not been made and will not be made.
8. ☐ An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371 (c)(3)).
9. ☒ An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)).
10. ☐ An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371 (c)(5)).

Items 11. to 16. below concern document(s) or information included:

11. ☒ An Information Disclosure Statement under 37 CFR 1.97 and 1.98. w/PTO-1449, 2 references
12. ☒ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 & 3.31 is included.
13. ☐ A FIRST preliminary amendment.
- ☐ A SECOND or SUBSEQUENT preliminary amendment.
14. ☐ A substitute specification.
15. ☐ A change of power of attorney and/or address letter.
16. ☒ Other items or information:

- Copy of International Application as published
- Ten (10) Sheets Drawings
- Sequence Listing
- Statement accompanying Sequence Listing
- Diskette Containing Sequence Listing

EXPRESS MAIL LABEL NO. EL807550335US

DATE: June 21, 2001

U.S. APPLICATION NO. (if known, see 37 CFR 1.5)		INTERNATIONAL APPLICATION NO. PCT/US00/29231		ATTORNEY'S DOCKET NUMBER AMSC-001	
<div>17. <input checked="" type="checkbox"/> The following fees are submitted: BASIC NATIONAL FEE (37 CFR 1.492 (a) (1) – (5)): <div style="margin-top: 5px;"><input type="checkbox"/> Neither international preliminary examination fee (37 CFR 1.482) nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO and International Search Report not prepared by the EPO or JPO \$1,000.00</div><div style="margin-top: 5px;"><input type="checkbox"/> International preliminary examination fee (37 CFR 1.482) not paid to USPTO but International Search Report prepared by the EPO or JPO \$860.00</div><div style="margin-top: 5px;"><input type="checkbox"/> International preliminary examination fee (37 CFR 1.482) not paid to USPTO but international search fee (37 CFR 1.445(a)(2)) paid to USPTO \$710.00</div><div style="margin-top: 5px;"><input type="checkbox"/> International preliminary examination fee paid to USPTO (37 CFR 1.482) but all claims did not satisfy provisions of PCT Article 33(1)-(4) \$690.00</div><div style="margin-top: 5px;"><input checked="" type="checkbox"/> International preliminary examination fee paid to USPTO (37 CFR 1.482) and all claims satisfied provisions of PCT Article 33(1)-(4) \$100.00</div></div>				CALCULATIONS PTO USE ONLY	
ENTER APPROPRIATE BASIC FEE AMOUNT =				100.00	
Surcharge of <u>\$130.00</u> for furnishing the oath or declaration later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492 (e)).					
CLAIMS		NUMBER FILED	NUMBER EXTRA	RATE	
Total claims		32 - 20 =		x \$18.00	216.00
Independent claims		4 - 3 =		x \$80.00	80.00
MULTIPLE DEPENDENT CLAIM(s) (if applicable)				+ \$270.00	
TOTAL OF ABOVE CALCULATIONS =					396.00
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by ½.					
SUBTOTAL =					396.00
Processing fee of <u>\$130.00</u> for furnishing the English translation later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492 (f)). +					
TOTAL NATIONAL FEE =					396.00
Fee for recording the enclosed assignment (37 CFR 1.21 (h)). Assignment must be accompanied by appropriate cover sheet (37 CFR 3.28, 3.31) + (\$40.00 per property).					
TOTAL FEES ENCLOSED =					396.00
* As In Preliminary Amendment					Amount to be: Refunded
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<div style="margin-top: 20px;">a. <input type="checkbox"/> A check in the amount of _____ to cover the above fees is enclosed.</div> <div style="margin-top: 5px;">b. <input checked="" type="checkbox"/> Please charge my Deposit Account No. <u>12-1095</u> in the amount of <u>\$ 396.00</u> to cover the above fees. A duplicate copy of this sheet is enclosed.</div> <div style="margin-top: 5px;">c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required or credit any overpayment to my Deposit Account No. <u>12-1095</u> . A duplicate copy of this sheet is enclosed.</div>					
<p>NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137 (a) or (b)) must be filed and granted to restore the application to pending status.</p> <p>SEND ALL CORRESPONDENCE TO:</p> <div style="display: flex; justify-content: space-between; margin-top: 20px;"><div>Lerner, David, Littenberg, Krumholz & Mentlik, LLP 600 South Avenue West Westfield, NJ 07090 Telephone 908 654-5000</div><div style="text-align: center;"><div> Signature</div><div>SHAWN P. FOLEY Name 33,071</div></div></div>					



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Base Rate: 18.85
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Time in 16.41	Military <input type="checkbox"/> 2nd Day <input type="checkbox"/> 3rd Day	Return Receipt Fee
<input type="checkbox"/> AM <input checked="" type="checkbox"/> PM	Int'l Alpha Country Code	COD Fee Insurance Fee
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